⚠ WARNING: Carefully read following instructions and technical specifications in this manual before installation. The system must be installed and used only according to this manual. The system is designed for vehicles with 12V power supply. It has to be connected to 12V output and to the ground. Neither producer or seller of the system is responsible for damages caused by incorrect installation, using or operating of this product. Unprofessional operation or modification of the system can damage the system alone, or the electric system of the vehicle and leads to warranty loss. For proper working of the system we recommend the installation to be made by authorized service.

I. SYSTEM DESCRIPTION - OEM LOCK key version

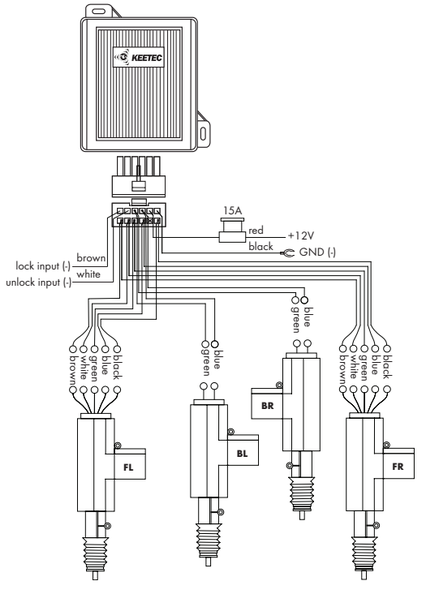
OEM LOCK is central locking system for SKODA vehicles.
Set OEM LOCK contains control unit, set of 4 actuators (two are designed to control the front door and two to control the rear doors), cabling to connect the system, a set of mechanical parts (rod, clamps, bolts and mounting rails). Actuators mounted in the doors ensure movement of the rod (as in manual operation). Actuators in the front doors contain a switch that senses the position of the lock and sends position information to the controller. The control unit based on position changes in control door lock controls all other door locks.

SCHEMATIC - OEM LOCK key version

CONNECTOR CN1 (12-PIN) - INPUTS/OUTPUTS CONNECTOR

Brown (-) System unlock (input wire)
White (-) System lock (input wire)
Red (+) Power supply +12V (input wire)
Black (-) GND of vehicle (input wire)
Green - wire for actuator connection
Blue - wire for actuator connection
Brown - wire for actuator connection
White - wire for actuator connection
Black - wire for actuator connection

Note: Skoda Fabia is using 5wire actuators in the rear doors. Brown (color may vary) wires routed from the wiring before connector are used as a door contact of the rear door to connect with car alarm.



II. SYSTEM DESCRIPTION - OEM LOCK version with RC

OEM LOCK is central locking system with remote control. It is suitable for Skoda vehicles. System is controlled with RC (possibility to remote control of trunk opening) or with original key. Communication between control unit and RC is protected by floating code. OEM LOCK set contains of two control units, which provides propert function of system, set of 4 actuators (two are designed to control the front door and two to control the rear doors), cabling to connect the system, a set of mechanical parts (rod, clamps, bolts and mounting rails). Actuators mounted in the doors ensure movement of the rod (as in manual operation). Actuators in the front doors contain a switch that senses the position of the lock and sends position information to the controller. The control unit based on position changes in control door lock controls all other door locks (key control).

DESCRIPTION OF RC

BUTTON	FUNCTION	CONDITION
🔒	vehicle lock	ignition turned off
🔓	vehicle unlock	locked vehicle
for 1sec.	trunk open	ignition turned off
🔒+ for 2sec.	a: turn on function „LOCK CHECK“ b: turn off function „LOCK CHECK“	function „LOCK CHECK“ is disabled function „LOCK CHECK“ is enabled
2x until 1sec.	„LOCK CHECK“ function activation (last pressed button on RC)	always **(only RC KEY)**
✳	„LOCK CHECK“ function activation (last pressed button on RC)	always **(only RC MAX)**
✳ for more than 1 sec.	lights up the LED diode in the front on RC	always **(RC MAX, RC LINE)**

Note: Lock Check function is available only at RC MAX and RC KEY!
Button on RC KEY with symbol ✳ = button on the others RCs with symbol .

"LOCK CHECK" FUNCTION - RC MAX

This function allows you to check which button was pushed last time. Buttons for locking and unlocking can be checked and therefore user can check, whether he locked the car or not. LOCK CHECK function is optional and turned off from factory. You can activate the function by holding buttons 🔒 and together for two seconds. When activating, icons for locking and unlocking will blink once. When deactivating, they will blink twice. If the function is activated, you can check the last pushed button by briefly pushing button ✳. After that the icon of locking or unlocking will light for aprox. 0,8 sec, depending on which button was pushed last time.
Warning: When the LOCK CHECK function is activated, battery life will be shorter

LOW BATTERY INDICATOR ON THE REMOTE

If the battery indicator will flash in blue colour when locking or unlocking vehicle, the battery in remote control is weak and you have to replace it with new one.

TORCH FUNCTION ON RC MAX, RC LINE

By holding button ✳ for more than 1 sec, high power LED in front of the remote will light. LED will light as long as you hold the button or for a specified time, even if you hold the button longer (only RC MAX). The time how long the LED can glow is adjustable (only RC MAX).

LED LIGHT DURATION SETTING ON RC MAX

duration of LED light can be adjusted from 1 to 30 sec or without limit. Push buttons 🔒 and ✳ together for 1 sec. Red LED will flash for 3 sec. After those 3 sec, the LED wil start to flash in 1 sec intervals. Press the button ✳ for as long as you wish the light to be switched on (max. 30 sec). If you don't press any button, light duration will be unlimited. Programming will automatically end after 30 sec.

FUNKCIA "LOCK CHECK" pri RC KEY

-press buttons 🔒 and ✳. Turn on/turn off of "LOCK CHECK" function (last pressed button on RC control). Turning on of this function is signalized by green flash of LED diode on RC. Turning off by red flash of LED diode. This function is turned off by factory settings.
- press button ✳ twice until 1 second and "LOCK CHECK" funcion will be activated (last pressed button on RC control). Every press of button is signalized by red flash of LED diode, then LED diode flashes with green for 1x or 2x, depending on which button was pressed last - 🔒 (1x green flash) or button 🔓 (2x green flash).

SCHEMATIC - OEM LOCK version with RC

CONNECTOR CN1 (4-PIN) - CONTROL UNIT 1

Brown (-) System unlock (output wire)
White (-) System lock (output wire)
Red (+) Power supply +12V (input wire)
Black (-) GND of vehicle (input wire)

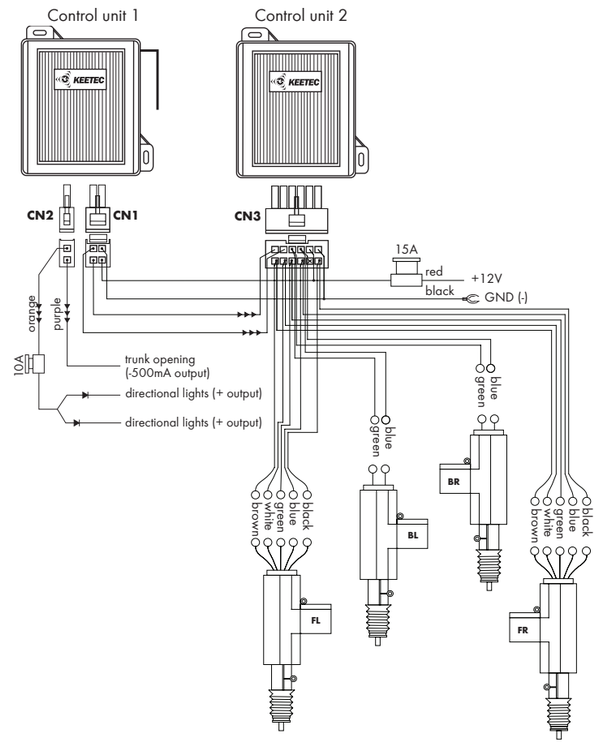
CONNECTOR CN2 (2-PIN) - CONTROL UNIT 1

Orange (+) Directional lights (output wire)
Fialový (-) Trunk opening (output wire)

CONNECTOR CN3 (12-PIN) - CONTROL UNIT 2

Brown (-) System unlock (input wire)
White (-) System lock (input wire)
Red (+) Power supply +12V (input wire)
Black (-) GND of vehicle (input wire)
Green - wire for actuator connection
Blue - wire for actuator connection
Brown - wire for actuator connection
White - wire for actuator connection
Black - wire for actuator connection

Note: Skoda Fabia is using 5wire actuators in the rear doors. Brown (color may vary) wires routed from the wiring before connector are used as a door contact of the rear door to connect with car alarm.



INSTALLATION AND MAINTENANCE

Installation of control units

Control units must be installed into interior of vehicle. The most suitable place for installation is under the dashboard.
When installing the servo, remove the upholstery from the door, to which they will be mounted. Install the servomotors according to manuals for specific type of vehicles. Once installed and connected to the rod or to the lock, test functionality with hand movements, if the operation is smooth and mechanism isn`t get stuck. If everything is allright, connect actuators wires to the power wires from unit according to schematic. If the locks on some doors require a reverse operation, exchange of power supply wires between them is required (blue and green wire). If this actuator is control actuator, switch white and brown between them, too. When installing wires pay attention to moving windows or doors to prevent wires from damage. The location of the inlet wires pay attention to when moving a window or door damage. After connecting all the servo motors, wires and checking the correctness of engagement, you can test the functionality of the system. In the event that control of key locking system is active in one direction only, or not responding at all, move the rod so that the moving part of the servo motor moves in the middle range of motion

Warning: If lock freezes in winter, even actuator can not unlock the door. Therefore, it must first be lock defrosted (with defrost liquds or by placing the vehicle into heated room), then to try to unlock the doors using the central locking. Before the winter season, pay attention to lubricate locks.

PROGRAMMING THE REMOTE CONTROLS

Up to 10 remote controls can be programmed into system.
- disconnect device from power supply and press valet switch
- when pressing the valet switch, connect/disconnect power supply 5 times within 7 seconds, while for the fifth time power remains connected. Release the valet switch
- LED diode on control unit starts flashes quickly to confirm entry into the programming mode and the directional lights will flash 5 times.
- press any of the button on RC within 5 seconds
- successful programing of RC is confirmed by flash of directional lights (1x for RC1, 2x for RC2 ...)
- programming will be automatically ended after 5 seconds after programing the last RC

Adding or deleting programmed remote controls when programming new ones

- disconnect power supply and press valet switch
- when pressing the valet switch, connect/disconnect power supply 7 times within 10 seconds, while for the seventh time power remains connected. Release the valet switch
- LED diode on control unit starts flashes quickly to confirm entry into the programming mode
- if you want to delete old RCs when adding new ones, press on programmed RC lock button (factory set). Flashing LED will turn on permanently for 2 seconds, then starts flashing again.
- if you want to keep old RCs when adding new ones, press on programmed RC unlock button. Flashing LED will turn on permanently for 5 seconds, then starts flashing again.
- programming will be automatically ended after 10 seconds

PROGRAMMING TRUNK OPENING OUTPUT

Output to open the luggage compartment is factory set to that after its activation has been switched on for 1 second. The system allows the output can be set in three ways:
1. activate the output for the set time (1 to 300 sec.). Once activated, the output to open the trunk is switched on for set time.
2. permanent turn on the output when pressing the trunk open button and by next press output will be closed
3. in idle mode the output is „-" 12V. Once activated, the output of the boot opening is with no tension on it and the output for directional lights is permanently switched on. Another pressing the button to activate the output to open the boot, turn off output of directional lights and on output for trunk again appears „-" 12V

Programming process of each option:

- disconnect power supply and press valet switch
- when pressing the valet switch, connect/disconnect power supply 3 times within 5 seconds, while for the third time power remains connected. Release the valet switch
- LED diode turns off for a while and then turns on to confirm entry into the programming mode (procedure is the same for all options, proceed as follows according to each option)
- programming function **1**: press trunk opening button once. LED diode starts flashes in 1 second intervals óda začne blikať v sekundových intervaloch (LED flashes number determines how long the trunk output will be switched on after activation). When the number of flashes corresponds to time how long you want to output be switched on, press again the trunk open button. The length of the output is now set.
- programming function **2**: press and hold trunk opening button. LED diode switched off. When LED diode flashes once, release the button. Output is now set.
- programming function **3**: press and hold trunk opening button. LED diode starts flashing in intervals (one flash, two flash). After two flashes release the button. Output is set now.

SYSTEM RESET

- disconnect power supply and press valet switch
- when pressing the valet switch, connect/disconnect power supply 10 times within 13 seconds, while for the tenth time power remains connected. Release the valet switch
- directional lights flashes three times. system is now reseted to the factory settings, also all programmed RCs are deleted from system

Note: The device OEM LOCK (version for remote control) is working in the band 433.2 MHz. Ask your dealer for Declaration of conformity for this product.

TECHNICAL PARAMETERS	
Power supply	12V +/- 25%
Working temperature	from -30°C to 70°C
Stand-by current	max. 10mA
Working frequency (P LOCK)	433,92 MHz
Lift of actuator	18 mm